publication for these three
directions alone will
exceed £1000, exclusive
of superintendence, computing,
and clerks work.-

Hatchet has written an
unimportant letter to
accompany the plans -

Yours
Edmond Schmile

Margate, Jan 9. 31.

My dear Sir;

The Treasury have
referred Lord Northampton's
letter relative to the Amazon
Magnetic Survey to the
Master General of the Ordnance
desiring an opinion as to its
importance, and an estimate
of the probable expense, both
to be furnished by the Board -
Sir Stanley Wilson has
in consequence desired Col.

Sir John Lubbock Bart.

DSI

For to say that the Master
General dishas to see me -

I shall attend him on
Tuesday morning at the
Board of Trade -

Has Sir Stussey received
Lord Northampton's letter to
himself? if not, think I
deliver it on Tuesday? a
note will send me at the
Athenaeum.

Sir complain with Sir
Stuffy Vivian's donations
I have furnished him with
a plan in fack detail,
and an estimate, for the
publication of the returns
from the three ordnance
magnetic Observatories -

The details of this plan have
been thoroughly discussed in
Correspondence with Sir Shabel &
Lloyd, and with the Fellows
regard to economy - nevertheless
the annual expense of

13. Ashley Place
May 31.

Dear Sir;

I have written to Mr. Welch, so that you will find yourself known at Keio.

If Thursday next would suit you to go there, I should have great pleasure in accompanying you, which might save you the inconvenience of finding your own way.

In case Thursday should

M. Schaub.

suit, wie Sie Sie einen
englisch breakfast hier et
wie related?

Sincerely Yours

Edward Sabine.

Edward Sabine
irrischer General major, Naturforscher
insbesond. über Magnetismus

DSI

Friday, Noon.

Dear Lord Granville

I have just received a
Note from the Emperor of
Brazil who would like to visit Kew;
and have named provisionally
Tuesday next for the purpose
should it suit. I shall
hear more from M. Lisboa, the
bearer of the letter before the Emperor.

I have named Tuesday that I may
take some of your father's pressure;
and have written to the Prince Consort
Sincerely yours accordingly -

C.

What more I may have to tell
be written to him under the
address Captain Cotton, To be
forwarded. So that it may be
intercepted & opened there, if
he should be at Portsmouth.

I hope, & think, you will be
well pleased with the
Emperor's desire, which is
spontaneous on his part.
I am writing now to Lord W.

Letters and accounts from
communicate when Mr Stewart.

always Faithfully yours
Edward Sabine

Pres. U. Society

British Association

FOR THE ADVANCEMENT OF SCIENCE,

Liverpool, Sept. 20 1854.

My dear Sir,

I must again express to you how great regret that I cannot accept your kind offer to lecture in Ireland - I feel I can only get through my duties, by declining the invitations, at least during the early part of the meeting.

Sincerely yours

Edward Forbes.

J. B. Yates Esq.

19.

13. Ashley Place
April 1.

My dear Sir

we shall have before
us at the R.S. meeting at 8½ PM
tomorrow, the Report of the
Committee on the completion of the
Melbourne Telescope; I shall
take care to have your name
put down on the list if you
should like to attend

Sincerely Yours
Edwd Sabine

Dr Neumeyer.

London. February 20th 1838.

My dear Sir;

I enclose at your request a memorandum of the magnetic observations which I conceive are most desirable to be made in India, and of the instruments which would be required for that purpose.

I thank you for the kind and complimentary manner in which, in your letter to Professor Lloyd, you have expressed your desire, to have my aid in carrying into execution these, and other extensive and important scientific operations in India, which you contemplate in addition to the trigonometrical Survey. At the time at which you expect to go out is yet distant, I avail myself of the opportunity, early as it may be, of stating in a definite form, the proper mode in which my

Captain T. B. Lewis.

services might be directed with that channel, should such be the wish of the Court of Directors. It must be by an application from the Court to the Master General of the Ordnance for any temporary employment in India for the performance of certain specific objects. It is not by any means unusual for such applications to be made by different departments of the state for the temporary services of officers of the Artillery and Engineers: and I do not imagine that any difficulty would be likely to occur on the part of the Master General, supposing the application to be such as, in his view, afforded an adequate reason for his sanctioning any employment out of the line of my more immediate professional duties.

For my own part in the question, my desire is, as it ever has been, to render to the country whatever services I may be accounted best qualified to perform, and wherever those services may best be rendered. I can appreciate the wide field of useful work that India presents; and should any employment there be deemed a sufficient object by the Court of Directors, to induce them to make a suitable application to the Master General, and should it receive his approbation, I should be found ready & willing to go. - and you are fully authorized to speak for me in that light. To say more, would be neither just to myself, nor would it, I am sure, conduce to the probability of obtaining the Master General's concurrence, which must of course be given on public grounds alone. I am also persuaded, that the more unequivocally any employment in India, as contemplated by you, is based on public grounds, and granted to public application, and not to private claims, the more

effectually I should be enabled, then we hope, to further the object we visit.

Believe me, with sincere regards

faithfully yours

Edward Sabine.

Major Edward Sabine R.A. F.R.S. 1788 - 1883 -.

DSI

The magnetic Observations which it is most desirable to make in India may be divided into two Classes. —

1st — Determinations of the Variation, Dip, and Intensity, at different Stations.

2d Determinations of the changes, regular and irregular, which the variation, dip, and intensity undergo at different times, at the same Station.

The observations of the 1st class cannot be too widely extended, or the stations too frequent. They require,

1. A Dip Circle and needle, with an additional needle for showing the total intensity by the statical method.

2. An apparatus for the horizontal intensity; being either Gauss's for the absolute hor. Int., or the ordinary one for the relative intensity.

3. A Variation Transit, with the addition of two micrometer microscopes for observing when Stationary the diurnal movements of the needle.

These three instruments form a complete portable magnetic

magnetic Observatory. The number of these must be regulated by the portable number of observers expected to use them.

The observations of the 2d class require first Observatories. Of these I conceive there should be at least two in British India. At each of these, the changes, annual, monthly, and diurnal, and the irregular influences, such the dip, variation, and intensity, undergo, should be strictly investigated. No one can advise better than Professor Lloyd. to whom Captain Lewis has applied, the instruments such are best fitted for these purposes; and Captain Lewis will have an opportunity of seeing them in action at the Dublin Observatory in the present Summer, and of hearing any improvements such have been suggested by their use.

It would be extremely desirable to combine meteorological with magnetic Observations at the fixed magnetic Observatories. They should also join in the observations of the horizontal needle made in the northern part of the Asiatic Continent, on the days fixed by Mr. Lamont. such should also be done by the Observers entrusted with the portable Observatory, if stationary on the days in question.

Edward Sabine.

Somerset House, Londres, ce 27 Decembre 1829.

Mon cher Monsieur!

Vous apprendrez avec plaisir la confirmation que vos observations de l'influence de l'aurore boreale sur l'aiguille magnetique, viennent de recevoir dans ce pays, au moyen d'observations faites en Aberdeenshire dans le courant de ce mois avec un appareil que la société royale a fait construire exprès. L'observateur est M. Farquharson; vous aurez peut-être lu un article de lui, dans les Trans. Phil. de l'année dernière sur l'elevation de l'aurore au dessus de la surface de la terre. L'interet que cette recherche vous a inspiré m'engage a vous communiquer aussitôt que possible un extrait de la lettre de M. Farquharson, contenant un sommaire des resultats de ses observations pendant l'apparition d'une aurore très brillante du 14. Decembre: la lettre sera lue à la société royale à la séance prochaine du 14 Janvier.

"It is obvious from the preceding detail that the disturbance

"of the magnetic declination by the Aurora on the evening of
"the 14th. December was so great", (the extremes being 44′ . 30″ apart),
"and so frequently reversed from E to W, and the contrary, as to leave
"no shadow of doubt regarding the reality of the Phenomenon. It
"is to be observed however that no disturbance took place till the
"fringes of the Aurora had gone so far South as to place the needle
"in their planes, or in the line of prolongation of the needle, or
"most elevated streamers of the fringes, which is that of the
"dipping needle. The numerous observations which I have made this
"Autumn, of which I have already put you in possession (October
"6-11-25; Nov. 17-18-19) and those also now detailed afford
"a proof, - a negative one indeed, and therefore imperfect, but
"now very extensive, - that the needle is not affected by the Aurora
"till it comes into the plane of the Dip: and we have thus I trust
"an explanation of the discordant results obtained & announced
"regarding this matter by different former observers. When the distur-
"-bance has been observed, there have been no doubt Zones of
"Aurora in the plane of the dip, though perhaps obscure and
"liable to be overlooked. Most of those I observed in that position
"or the 14th. were so faint that I might not have noticed some
"of them, had I not traced their progress southward from stations
"where they were much more brilliant.

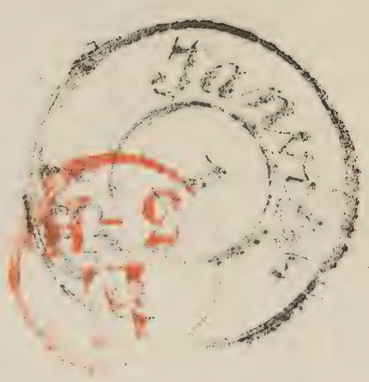
Il serait sans doute très interessant pour la société royale de savoir, si vous avez aperçu aucun changement non-ordinaire dans la direction de l'aiguille entre 6 heures et minuit des jours cités par M. Fergusson, et notamment du 14 Decembre.

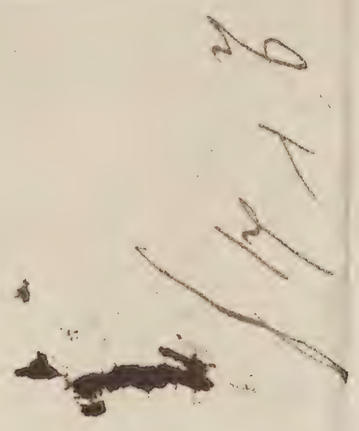
S'il y en a eu, je pourrois peut être me flatter d'avoir le [redacted] vu, que je n'ai pas eu depuis longtems, de recevoir une lettre de vous.

Conservant toujours le souvenir de l'amitié que vous m'avez témoignée pendant mon séjour à Paris, je vous prie de me croire,

votre très devoué

Edward Sabine





Monsieur.

Monsieur Arago.

à l'Institut.

Paris.

D.

Sir

I have the honor of acquainting you that you were on Thursday last elected a fellow of the Royal Society, in consequence of which the Statute requires your attendance for admission on or before the fourth Meeting from the day of your election, or within such further time as shall be granted by the Society or Council, upon cause shewed to either of them; otherwise your election will be void.

You will therefore be pleased to attend at eight of the clock in the evening on one of the following days, viz.t

Thursday the 19th of June, 1828
Thursday the 20th of November —
Thursday the 27th of November —
Thursday the 13th of December —

I am
Sir
Your humble Servant
Edward Sabine
Secretary.

From the Apartments
of the Royal Society,
Somerset Place, Strand.
June 13. 1828

The Rev.d Isaac Lonsdale, M.A.

15/D

DSI

SABINE, Edward

A. L. S. dated Feb. 20,1838 encloosing a memorandum about magnetic observations to be made in India

SABINE, Edward

A. L. S. dated Jan. 9, 1831 regarding magnetic surveys

SABINE, Edward

A.L.S. to Mr. Gassiot

SABINE (General Sir Edward, P.R.S., 1788-1883) AUTOGRAPH LETTER, signed, 4 pp. 8vo., Margate Jun. 9. 31 [to Sir John W. Lubbock, F.R.S.], 17*s* 6*d* 8th

An interesting letter on the American magnetic survey, proposed by the Royal Society to the Treasury, which General Sabine actually undertook in 1834-6.

to SIR HANS SLOANE, P.R.S.

222 ——, MEMORIALS of, consisting of his Life by DR. DERHAM, biographical and critical Notice
SIR J. E. SMITH, CUVIER and DUPETIT THOUARS, with his Itineraries, etc., edited by ED
LANKESTER, M.D., F.R.S., *with fine lithographic view of his tomb at Black Nottley, Essex,*

366. SABINE, Sir Edward. Physicist and explorer; astronomer on artic voyages in search of North West Passage. DS, full page, folio, 1828. Notice of election to the Royal Society. $15.00

... is ready $25.00

346. READ, Thomas Buchanan. Author. ALS, full page, 8vo, 1864. Declines invitation and thanks for comments. $15.00

347. REMENYI, Edo. Hungarian violinist. ALS, ... page, 8vo, ... H...

SABINE (General Sir Edward, P.R.S., 1788-1883) A.L.S. (EDWARD SABINE), 13 Ashley Place April 1, to Dr. Neumeyer, 1 page 8vo., 17*s* 6*d*

LONDON SOTHEBY'S

Referring to the R.S.'s Report of the Committee on the Completion of the Melbourne Telescope.

'I am happy to say that my portrait is finished, and I have arranged to prove it on Wednesday.' . . .

864 —— A.L.S. (LOVEL REEVE), 5 Henrietta Street, Covent Garden, Dec. 12 1859, to Sir John Ev
F.R.S., 2 pages 8vo., 15s

345. SABINE, Edward. Autograph letter, signed. To J.B.Yates, Esq. Liverpool, B.A., 1854. 8vo. 1 page. GURNEY - 63 10/-

Edinburgh,1784. 8vo.Disbound.

318. POUCHET,A.Gabriel. Propriétés Générales des Aldéhydes. Thèse. Paris,1883. 4to.Quarter-vellum. With extensive bibliography. 15/-

. SABINE (Sir Edward). Physicien et mathématicien britannique. 1788-1883.- L.A.S. à Arago. Londres, 27 décembre 1829. 3 pp. in-4. Adresse au verso.

Belle lettre scientifique sur "... l'influence de l'aurore boréale sur l'aiguille magnétique...". Il explique que la Société Royale a fait construire un appareil pour observer ce phénomène : "...L'intérêt que cette recherche vous a inspiré m'engage à vous communiquer aussitôt que possible un extrait de la lettre de M. Facquharson, contenant un sommaire des résultats de ses observations pendant l'apparition d'une aurore très brilliante du 14 décembre...". Sabine donne de longs extraits de cette lettre et demande à Arago de lui communiquer les remarques qu'il aura pu faire lui-même.

250 Frs.

aux armes de la ville.

Brevet de Naturalisation d'honneur pour le célèbre Sir Robert Peel, baronnet, membre du Parlem secrétaire d'Etat pour l'Irlande "... Le vif intérêt que vous avez toujours témoigné à la Suisse e notre Canton, la manière distinguée dont vous avez pris la défense des droits méconnus et des in rêts les plus sacrés de la Confédération Suisse et du Canton de Genève, dans le Parlement britan que, ont inspiré à la population genevoise une profonde reconnaissance...Dans notre pays où au titre honorifique ne peut être décerné, les Conseils de notre Canton, à l'unanimité, ont décidé vous offrir le seul titre reconnu par notre Constitution, celui de Citoyen Genevois...". Peti déchirure, avec léger manque de papier, dans la marge.

160 F

FINE SCIENTIFIC MANUSCRIPT ON MAGNETIC OBSERVATIONS

615 **SABINE, EDWARD.** Great Astronomer; famous for his researches in Terrestial Magnetism. A.L.s. 3½ pages, and Autograph Manuscript, signed, 2½ pages. Together 6 pages, 4to. London, February 20, 1838. **$20.00**

Very fine scientific letter and manuscript, the latter containing specific directives on the place, methods of making Magnetic Observations in India. See supra letter on the same subject by Humphrey Lloyd.

SABINE (sir Edward). Physicien et mathématicien britannique, 1788-1883.- L.A.S. à Arago. Londres, 27 décembre 1829. 3 pp. in-4. Adresse au verso. 250 Frs.

Belle lettre scientifique sur "... l'influence de l'aurore boréale sur l'aiguille magnétique...". Il explique que la Société Royale a fait construire un appareil pour observer ce phénomène: "... L'intérêt que cette recherche vous a inspiré m'engage à vous communiquer aussitôt que possible un extrait de la lettre de M. Facquharson, contenant un sommaire des résultats de ses observations pendant l'apparition d'une aurore très brilliante du 14 décembre...". Sabine donne de longs extraits de cette lettre et demande à Arago de lui communiquer les remarques qu'il aura pu faire lui-même.